

**Field Data Collection**  
(2012 Standard Inspection)

**Company:** Northwest Pipeline Corp (WGP)

**Unit:** Sumas District

**Pipe-to-Soil Potential Readings at 30" & 36" lines, Rectifiers and Other Locations**

**Data compiled by Al Jones / UTC**

<b>Date</b>	<b>Location</b>	<b>Pipe (Volts) Power On/Off</b>	<b>Casing (Volts)</b>	<b>Comments</b>
6/6/2012	Sumas Compressor Station	-1.08 on		Compressor Plants A, B, C and D was inspected. Gas sensors were checked with 2.5% methane test gas at each Plant. Lights and fans were activated at 20% LEL and station ESD at 40% LEL. All sensors worked properly.
		-1.248 on		Plant C suction piping Station Rectifier #459-2 10.3 volts output, 5.5 Amps.
	HCA, Class 3 Location Deming Crossover Valve #17L7	-1.466 on		At 30" Canadian/US border crossing.  36" M&J gate valve.
	MP 1462 Mosquito Lake Rd			Rectifier #1811-1 5.7 v output 4.5 Amps Settings: C1, F2  Rectifier #1811-2 4.5 v output 1.2 Amps Settings: C1, F2

6/6/2012	<p>Skagit River arterial crossing North and South sides of river. 26" &amp; 30"</p> <p>MP 1456 Geo Hazard "Big Ditch" Located on Wickersham Hill.</p>			<p>Rectifier #1071 27.8 v output 12.4 Amps Settings: C1, F5</p> <p>Rectifier #1676 17.3 v output 2.1 Amps</p> <p>Inspected remediation of soil erosion with the placement of rock in the shape of a swale to channel water flow across the ROW.</p>
6/7/2012	Mt. Vernon Compressor Station	<p>-1.06 v on -1.35 v on -1.19 v on -1.08 v on -1.15 v on</p>		<p>Compressor Plants A, B, and C was inspected. Gas sensors were checked with 2.5% methane test gas at each Plant. Lights and fans were activated at 20% LEL and at 40% LEL the station ESD. All sensors worked properly.</p> <p>Test Site #81 26" kicker gas pipe at receiver 30" receiver 30" kicker gas pipe at launcher 36" launcher</p> <p>The 30" mainline valve 17L-4N was operated.</p> <p>Rectifier #1687 13.0 v output 9.5 Amps Settings: C1, F4</p> <p>Rectifier #847 (ground bed) 37.3 v output 0.9 amp Settings: C3, F3</p>

6/7/2012	<p>Stanwood Lateral HCA, Class 3 Location (Lateral MP 7.6)</p> <p>MP 1424 HCA, Class 3 Location</p> <p>MP 1421.4 Arlington Slide</p> <p>MP 1414.1 Granit Falls Meter Station</p>	<p>-1.41 v on</p> <p>-1.35 v on</p> <p>-1.21 v on -1.27 v on</p>		<p>6" lateral, MAOP of 960 psig, odorized by Cascade Natural Gas.</p> <p>East Stanwood Gate Station</p> <p>8415 Arlington Heights Rd, Arlington, WA 30" pipeline</p> <p>30 &amp; 36 Pipelines Six strain gauges stations with three gauges per stations. 30" Pipeline 36" Pipeline</p> <p>Gas is delivered to Cascade Natural Gas at 240 psig with overpressure protection at 253 psig. The station is configured with dual runs with worker and monitor regulation. Rectifier #1816 8.6 v output 1.2 Amps Setting: C1, F3</p>
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